

NIEM Overview

Modules Roadmap: You Are Here



NIEM Overview

IEPD Concepts

How NIEM uses XML (pt. 1)

How NIEM uses XML (pt. 2)

Business Skills

Exchange Content Modeling

Mapping

Subsets

Extension and Exchange
Schemas

Packaging and Distribution

Implementation
Considerations

Objectives Roadmap

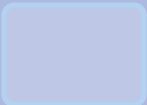
This module supports the following course objective:



Describe what NIEM is.



Describe what an IEPD is.



Comprehend artifacts included in an IEPD.



Develop artifacts included in an IEPD.



Package an IEPD.



Understand advanced XML concepts, as required by NIEM.



Recognize business skills required to successfully participate in an IEPD development project.

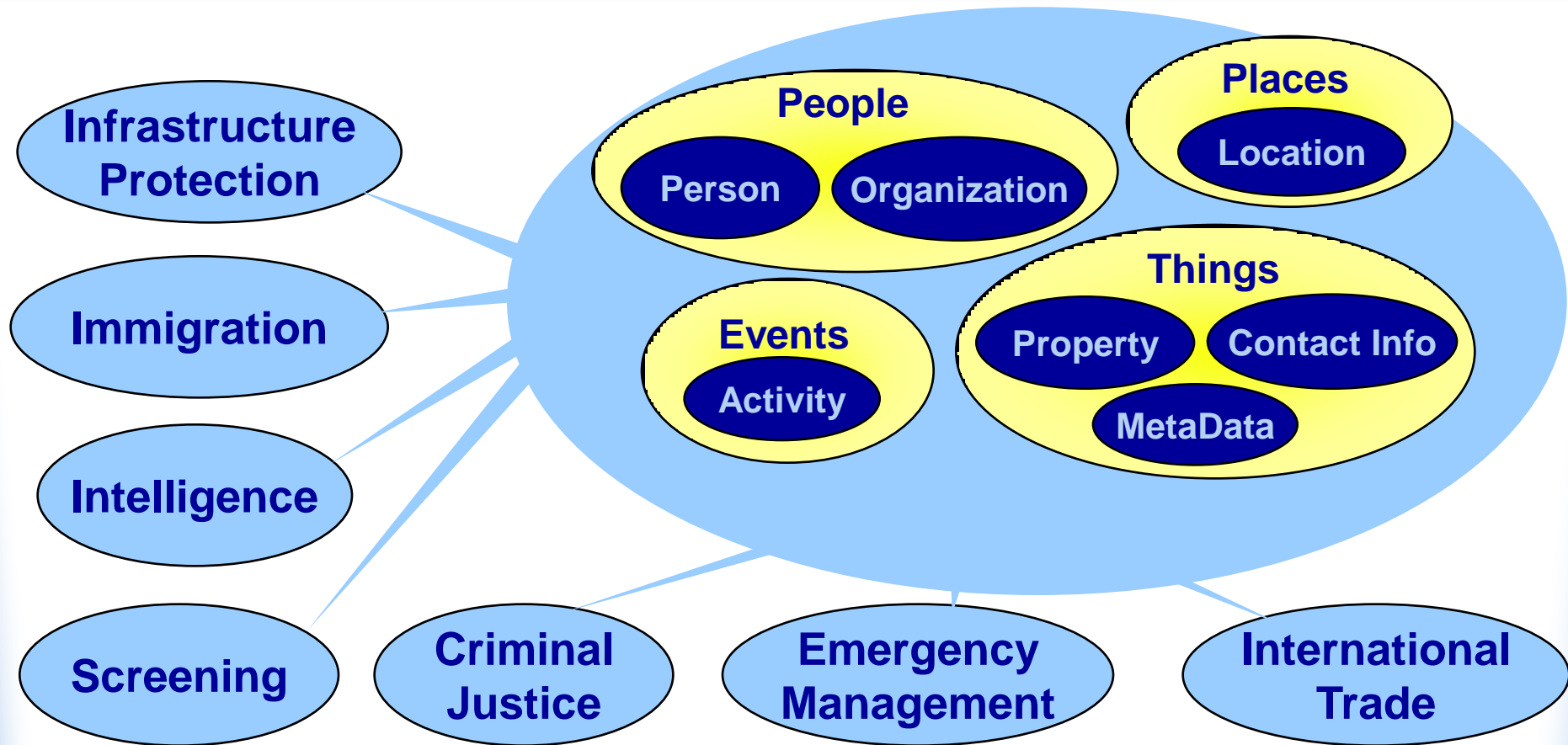
Module Objectives

- After completing this module, you should be able to:
 - ◆ Identify what NIEM is.
 - ◆ Recognize what NIEM is not.
 - ◆ Recognize what issues NIEM can address.
 - ◆ Identify the basic concept of an IEP / IEPD.

Discussion and Exercise

Preconceived notions!

NIEM at 50,000 Feet



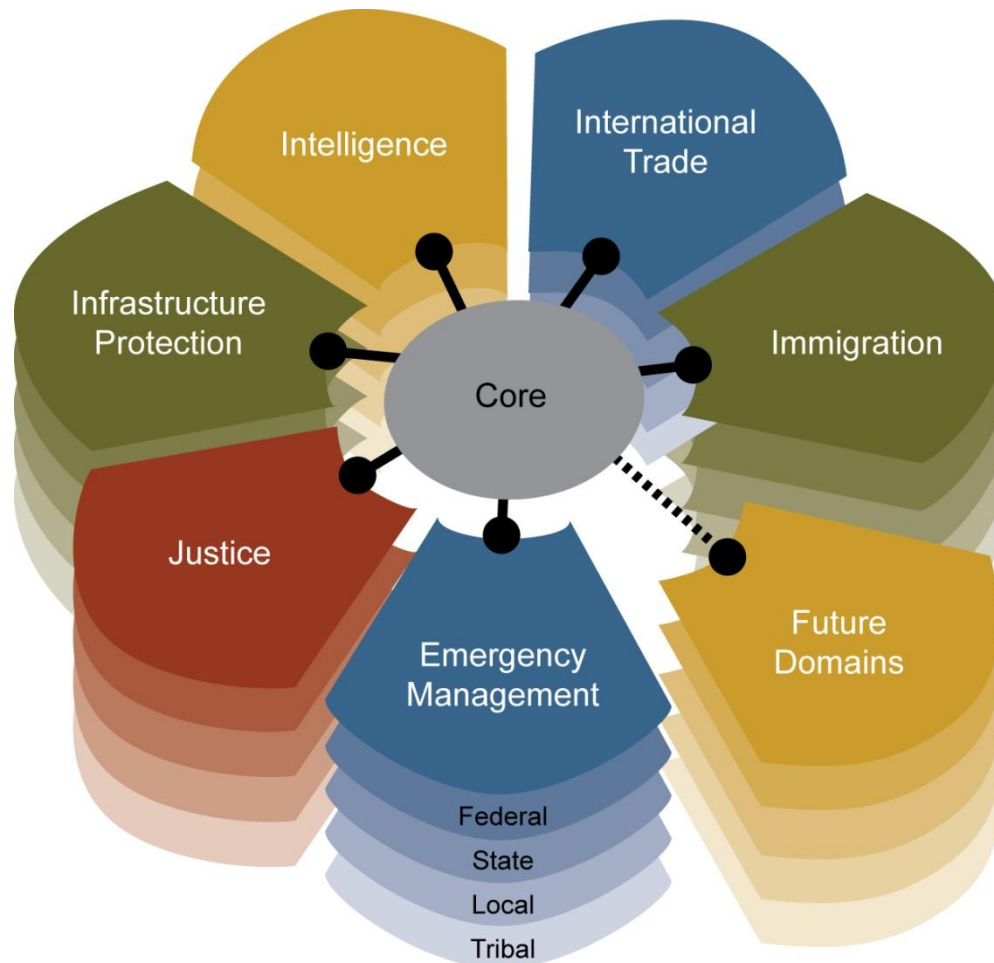
What NIEM Is

- A **National Standard** that facilitates information sharing:
 - ◆ Across organizational and jurisdictional boundaries
 - ◆ At all levels of government
- A **Data Model** providing:
 - ◆ Agreed-upon terms, definitions, and formats for various business concepts
 - ◆ Agreed-upon rules for how those concepts fit together
 - ◆ Independence from how information is stored in individual agency systems
- A **Structured Approach** for:
 - ◆ Development tools, processes, and methodologies

What NIEM is Not

- A database schema
- Just a data dictionary
- Only applicable to the Federal government
 - ◆ Includes many other communities at all levels of government
- A programming language
- A replacement for interagency agreements
 - ◆ NIEM is the technical solution, the policy and business issues must also be worked out

Participating Communities



What Does NIEM Address? (1 of 2)

- Semantic interoperability
- Confusion on what framework to follow
- The question of “how”

What Does NIEM Address? (2 of 2)

- Improves public safety and homeland security.
- Enhances the quality of justice and decision-making.
- Achieves greater efficiency, effectiveness, and return on investment (ROI) in operations and decision-making.
- Improves efficiency and effectiveness.
- Facilitates business transformation.
- Provides a valuable framework, infrastructure and governance that is scalable beyond the current domains for other cross-government information exchange challenges.

What is an IEPD?

- Information Exchange Package Documentation
 - ◆ Provides the information exchange specification
 - ◆ Includes business artifacts (process, context)
 - Interagency agreements, ConOps, business case, etc.
 - ◆ Includes technical artifacts (structure, scope)
 - Schemas, UML, stylesheets, sample XML instances, etc.

What is an IEP?

- Information Exchange Package
 - ◆ An XML instance conforming to the IEPD specification
 - ◆ Contains the transaction or message-level data passed between two information systems
 - ◆ The payload.....

NIEM Tools

- Schema Subset Generation Tool (SSGT)
 - ♦ <http://niem.gtri.gatech.edu/niemtools/ssgt/index.iepd>
- NIEM Wayfarer
 - ♦ <http://ncsconline.org/niemwayfarer/>
- NIEM Dictionary
 - ♦ <http://www.niemdictionary.com/>
- Data Model Viewer
 - ♦ <http://niem.gtri.gatech.edu/niemtools/ssgt/DataModelViewer.iepd>
- "Work with IEPDs" Tool
 - ♦ <http://niem.gtri.gatech.edu/niemtools/iepd/index.iepd>
- More tools:
 - ♦ <http://niem.gtri.gatech.edu/niemtools/home.iepd>
 - ♦ <http://niem-o-rama.org/showcategory.php?topic=57>

Module Summary

- After completing this module, you should be able to:
 - ◆ Identify what NIEM is.
 - ◆ Recognize what NIEM is not.
 - ◆ Recognize what issues NIEM can address.
 - ◆ Identify the basic concept of an IEP / IEPD.

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